

Clean Copy of the Amended Claims:

APR 25 2013
SUB B1
1.(amended) An isolated nucleic acid coding for a human MiRP1 polypeptide, said polypeptide having the amino acid sequence set forth in SEQ ID NO:2 or an isolated nucleic acid complimentary to said nucleic acid coding for a human MiRP1 polypeptide.

APR 25 2013
SUB B2
5. (amended) An allele specific probe or primer which hybridizes to a nucleic acid encoding a polypeptide of SEQ ID NO:2 under stringent hybridization conditions, wherein said stringent hybridization conditions comprise a temperature of at least 45°C with a salt concentration less than 200 mM.

APR 25 2013
SUB B3
7. (amended) The probe or primer of claim 6 that comprises at least ten contiguous bases of nucleic acid encoding a polypeptide of SEQ ID NO:2 or at least ten contiguous bases of nucleic acid encoding a sequence complimentary to said nucleic acid encoding a polypeptide of SEQ ID NO:2.

APR 25 2013
SUB B4
9. (amended) A primer suitable for performing a single base extension reaction across a polymorphic site, which primer hybridizes to a subsequence of SEQ ID NO:1 or the complement thereof, which subsequence terminates at base immediately adjacent to and 5' from a base selected from the group consisting of nucleotide numbers 95, 98, 234 or 243.

APR 25 2013
SUB B5
25. (amended) An *in vitro* cell transfected *in vivo* with the DNA of claim 1.

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SUB C1
26. (amended) An *in vitro* cell transfected with the isolated nucleic acid of claim 70.

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SUB C2
28. (amended) A vector comprising the isolated nucleic acid of claim 70.

APR 25 2013
SUB C3
29. (amended) An *in vitro* cell transfected with the vector of claim 27.

AA Sub C 30. (amended) An *in vitro* cell transfected with the vector of claim 28.

Clean Copy of New Claims:

69. The nucleic acid of claim 1 which is an RNA.

70. An isolated DNA coding for a mutated form of the MiRP1 polypeptide sequence set forth in SEQ ID NO:2, wherein said mutated form comprises a mutation selected from the group consisting of: a Ala at amino acid 8; a Glu at amino acid 9; a Thr at amino acid 54; and a Thr at amino acid 57.

71. An isolated nucleic acid coding for (a) a mutated form of the nucleotide sequence set forth in SEQ ID NO:1 or (b) a nucleic acid complimentary to said nucleotide sequence, wherein said mutated form copies nucleotides 74-442 of SEQ ID NO:1 having a nucleotide change selected from the group consisting of: an A to a G at nucleotide 95; a C to a G at nucleotide 98; a T to a C at nucleotide 234; and a T to a C at nucleotide 243.

72. An allele specific probe or primer which hybridizes to the DNA of claim 70 under stringent hybridization conditions, wherein said stringent hybridization conditions comprise a temperature of at least 45°C with a salt concentration less than 200 mM.

73. The isolated nucleic acid of claim 72 which is an RNA.

74. An isolated nucleic acid which comprises the nucleotide sequence set forth in SEQ ID NO:1 or a nucleic acid complimentary to said sequence.

75. An isolated nucleic acid as in claim 74 which is an RNA.

76. An isolated nucleic acid which comprises nucleotides 24 to 442 of SEQ ID NO:1.
